



US 20210110534A1

(19) **United States**(12) **Patent Application Publication**  
**Yu et al.**(10) **Pub. No.: US 2021/0110534 A1**(43) **Pub. Date: Apr. 15, 2021**(54) **REDUCING FALSE POSITIVE DETECTIONS  
OF MALIGNANT LESIONS USING  
MULTI-PARAMETRIC MAGNETIC  
RESONANCE IMAGING****Publication Classification**(51) **Int. Cl.**  
**G06T 7/00** (2006.01)  
**G06K 9/46** (2006.01)(52) **U.S. Cl.**  
**CPC** ..... **G06T 7/0012** (2013.01); **G06K 9/46**  
(2013.01); **G06T 2207/30096** (2013.01); **G06T**  
**2207/20084** (2013.01); **G06T 2207/10088**  
(2013.01); **G06T 2207/20081** (2013.01); **G06T**  
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(US)(21) Appl. No.: **16/782,201**(22) Filed: **Feb. 5, 2020****Related U.S. Application Data**(60) Provisional application No. 62/912,709, filed on Oct.  
9, 2019.(57) **ABSTRACT**

Systems and methods for reducing false positive detections of malignant lesions are provided. A candidate malignant lesion is detected in one or more medical images, such as, e.g., multi-parametric magnetic resonance images. One or more patches associated with the candidate malignant lesion are extracted from the one or more medical images. The candidate malignant lesion is classified as being a true positive detection of a malignant lesion or a false positive detection of the malignant lesion based on the one or more extract patches using a trained machine learning network. The results of the classification are output.

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